

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

108077-00000

09/648,750

## LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT

UCHIBORI

FILING DATE

August 28, 2000

GROUP

2825

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT<br>NO. | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
|---------------------|----|-----------------|------|------|-------|---------------|----------------|
|                     | AA |                 |      |      |       |               |                |
|                     | AB |                 |      |      |       |               |                |
|                     | AC |                 |      |      |       |               |                |
|                     | AD |                 |      |      |       |               |                |
|                     | AE |                 |      |      |       |               |                |
|                     | AF |                 |      |      |       |               |                |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NO. | DATE | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION |    |
|--|----|-----------------|------|---------|-------|---------------|-------------|----|
|  |    |                 |      |         |       |               | YES         | NO |
|  | AG |                 |      |         |       |               |             |    |
|  | AH |                 |      |         |       |               |             |    |
|  | AI |                 |      |         |       |               |             |    |
|  | AJ |                 |      |         |       |               |             |    |
|  | AK |                 |      |         |       |               |             |    |
|  | AL |                 |      |         |       |               |             |    |

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |   |  |  |  |  |  |  |
|--|----|---|--|--|--|--|--|--|
|  | AM | Kwak, et al. "Improvement of Ta Diffusion barrier performance in Cu Metallization by Insertion of a thin Zr Layer into Ta Film" Appl. Phys., Lett. Vol. 72, pp. 2832-2834 |  |  |  |  |  |  |
|  | AN |   |  |  |  |  |  |  |
|  | AO |   |  |  |  |  |  |  |

EXAMINER

DATE CONSIDERED

7/1/04


\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## PRIOR ART INFORMATION LIST

U.S. Patent Application No. 09/815,010

Your ref: P3374-698-A-010393

Our ref: 2000-325802

| No.  | Inventor, Patent Number, County,<br>Author, Title, Name of Document                        | Issue Date    | Concise Explanation of the Relevance<br>(indication of page, column, line,<br>figure of the relevant portion) |
|------|--|---------------|---|
| ② 1. | U.S.P. 5,595,937   | Jan. 21, 1997 | FIG. 5H   |
|      |  2/1/04 |               |   |